

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 January 2003 (09.01.2003)

PCT

(10) International Publication Number
WO 03/003109 A1

(51) International Patent Classification⁷: G02F 1/1347

(21) International Application Number: PCT/JP02/06265

(22) International Filing Date: 24 June 2002 (24.06.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2001-196407 28 June 2001 (28.06.2001) JP

(71) Applicant (*for all designated States except US*): MINOLTA CO., LTD. [JP/JP]; Osaka Kokusai Building, 2-3-13, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka 541-8556 (JP).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): SHIMIZU, Yoshie

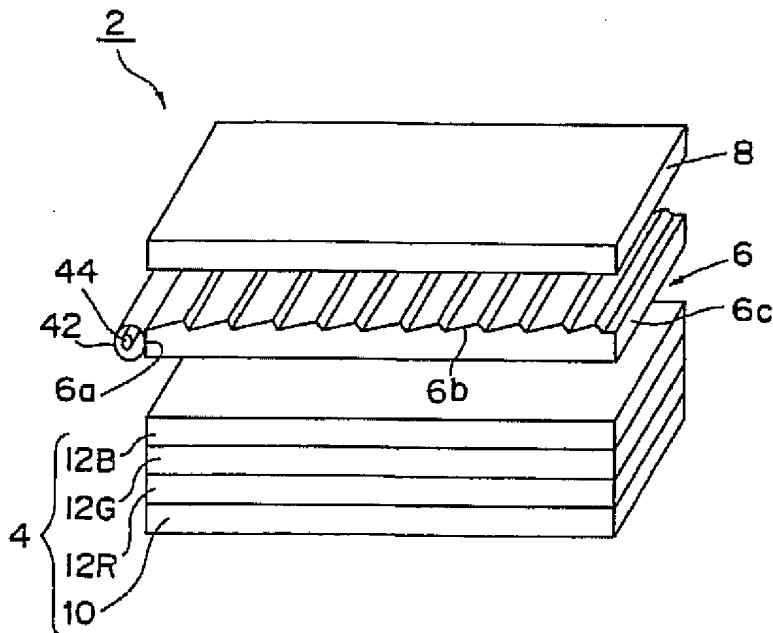
[JP/JP]; c/o Minolta Co., Ltd., Osaka Kokusai Building, 2-3-13, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka 541-8556 (JP). OSHITANI, Hiroshi [JP/JP]; c/o Minolta Co., Ltd., Osaka Kokusai Building, 2-3-13, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka 541-8556 (JP). FUJIYO, Ichiro [JP/JP]; c/o Minolta Co., Ltd., Osaka Kokusai Building, 2-3-13, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka 541-8556 (JP).

(74) Agents: AOYAMA, Tamotsu et al.; AOYAMA & PARTNERS, IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka 540-0001 (JP).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: DISPLAY PANEL AND DISPLAYING APPARATUS HAVING THE PANEL



WO 03/003109 A1

(57) Abstract: A display panel includes first and second display sub-pixels superimposed on each other. Each pixel of the display panel is constituted by a first sub-pixel of the first display sub-panel and a second sub-pixel of the second display sub-panel. The first and second display sub-pixels are superimposed on each other so that the first and second sub-pixels constituting each pixel of the display panel are displaced at a distance in relation to each other in a surface direction of the display sub-panel. This can restrain moire patterns from being produced when the display panel is used with a flat optical element having periodical structures, such as touch panel or light conducting plate.